Part 573 Safety Recall Report

Manufacturer Name :Toyota Motor Engineering & ManufacturingSubmission Date :JUL 24, 2019NHTSA Recall No. :19V-544Manufacturer Recall No. :See attached report



Manufacturer Name : Toyota Motor Engineering & Manufacturing Address : 6565 Headquarters Drive Plano TX 75024 Company phone : 1-800-331-4331

Population :

Number of potentially involved : 6,925 Estimated percentage with defect : 25 %

Vehicle Information :

Vehicle 1:	2019-2019 Lext	ıs LS500			
Vehicle Type :					
Body Style :					
Power Train :	NR				
Descriptive Information :	(1) Although the all vehicles in the production range produced with a production record Toyota estimate booster pump vehicles the noncomplia variation of each	e involved vehi- tis range were s ge which had a an improper sha ords during the es approximate which was manu- nce is present o h individual par	cles are within sold in the U.S. brake booster ape discussed specific manu- ly 25% of the v ifactured with on each potent ct.	the above productio (2) Only vehicles in a pump containing a pl below could be affect facturing process disc vehicle population ma inappropriate parts. ially affected vehicle	n period range, not the above astic brush holder ed. Note: Based on cussed below, ay contain a brake However, whether depends on the
Production Dates :	MAY 15, 2019 -	MAY 31, 2019			
VIN Range 1:	Begin :	NR	End: NR		Not sequential
Vehicle 2:	2019-2019 Lex	ıs LC500			
Vehicle Type :					
Body Style :					
Power Train :	NR				
Descriptive Information :	(1) Although the all vehicles in the production range produced with a production record Toyota estimate booster pump we the noncomplia variation of eact	e involved vehich is range were s ge which had a l an improper sha ords during the es approximate which was manu nce is present of h individual par	cles are within sold in the U.S. brake booster ape discussed specific manu- ly 25% of the v ifactured with on each potent rt.	the above productio (2) Only vehicles in pump containing a pl below could be affect facturing process disc vehicle population ma inappropriate parts. ially affected vehicle	n period range, not the above astic brush holder ed. Note: Based on cussed below, ay contain a brake However, whether depends on the

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Production Dates :	MAY 15, 2019 - J	IUN 03, 2019			
VIN Range 1:	Begin :	NR	End :	NR	Not sequential
Vehicle 3:	2020-2020 Toyo	ota Corolla HV			
Vehicle Type :	· ·				
Body Style :					
Power Train :	NR				
Descriptive Information :	(1) Although the all vehicles in the production range produced with a production reco Toyota estimate booster pump we the noncompliant variation of each	e involved vehic is range were s ge which had a b in improper sha rds during the s is approximately hich was manu nce is present o n individual par	les are v old in th orake bo pe discu specific p y 25% o factured n each p t.	within the above production in U.S. (2) Only vehicles in oster pump containing a p ussed below could be affect manufacturing process dis of the vehicle population m l with inappropriate parts potentially affected vehicle	on period range, no the above lastic brush holder ted. Note: Based or cussed below, ay contain a brake However, whethe depends on the
Production Dates :	APR 25, 2019 - N	MAY 31, 2019			
VIN Range 1:	Begin :	NR	End :	NR	Not sequential
Vehicle 4:	2019-2019 Toyo	ota Prius			
Vehicle Type :	0				
Body Style :					
Power Train :	NR				
Descriptive Information :	(1) Although the all vehicles in th production rang produced with a production reco Toyota estimate booster pump w the noncomplian variation of each	e involved vehic is range were s ge which had a b in improper sha rds during the s s approximately hich was manu nce is present o n individual par	les are v old in th rake bo pe discu pecific r y 25% o factured n each p t.	within the above production of U.S. (2) Only vehicles in oster pump containing a p ussed below could be affect manufacturing process dist of the vehicle population m d with inappropriate parts potentially affected vehicle	on period range, no the above lastic brush holder ted. Note: Based of cussed below, ay contain a brake However, whethe depends on the
Production Dates :	APR 26, 2019 - M	MAY 31, 2019			
VIN Range 1:1	Begin :	NR	End :	NR	Not sequential
Vehicle 5 : Vehicle Type : Body Style :	2019-2020 Toyo	ota Prius Prime			
Power Train :	NR				
Descriptive Information :	(1) Although the all vehicles in th production rang produced with a	e involved vehic is range were s ge which had a b in improper sha	les are v old in th orake bo pe discu	within the above production to U.S. (2) Only vehicles in oster pump containing a p ussed below could be affect	on period range, no the above lastic brush holder ted. Note: Based on

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	booster put the noncom variation of	mp which was pliance is pres f each individua	manufactured with inapp ent on each potentially a al part.	propriate parts. Howeve ffected vehicle depends	r, whethe on the
Production Dates :	APR 26, 20	19 - MAY 31, 20)19		
VIN Range 1:	Begin :	NR	End: NR	Not s	equentia
Vehicle 6:	2019-2019	Toyota RAV4 I	łV		
Vehicle Type : Body Style :		,			
Power Train :	NR				
Descriptive Information :	(1) Althoug all vehicles production produced w production Toyota esti- booster put the noncom variation of	th the involved in this range w range which h with an imprope records during mates approxim mp which was ppliance is press f each individua	vehicles are within the a rere sold in the U.S. (2) C ad a brake booster pump er shape discussed below g the specific manufactur nately 25% of the vehicle manufactured with inapp ent on each potentially a al part.	bove production period only vehicles in the above o containing a plastic brue v could be affected. Note ing process discussed be e population may contai propriate parts. Howeve affected vehicle depends	range, no e sh holde :: Based o elow, n a brake r, whethe on the
Production Dates :	APR 26, 20	19 - JUN 03. 20	19		
VIN Range 1:	Begin :	NR	End: NR	□ Not s	equentia
Vehicle Type : Body Style : Power Train : Descriptive Information : Production Dates :	NR (1) Althoug all vehicles production produced w production Toyota estii booster put the noncom variation of MAY 21, 20	the involved in this range w range which h vith an imprope records during mates approxin mp which was p pliance is pres f each individua 19 - MAY 21, 24	vehicles are within the a rere sold in the U.S. (2) C ad a brake booster pump er shape discussed below g the specific manufactur nately 25% of the vehicle manufactured with inapp ent on each potentially a al part.	bove production period only vehicles in the above o containing a plastic brue o could be affected. Note ing process discussed be e population may contai propriate parts. Howeve affected vehicle depends	range, no e sh holde :: Based c elow, n a brake r, wheth on the
VIN Range 1:	Begin :	NR	End: NR	Not s	equentia
Vehicle 8 : Vehicle Type : Body Style : Power Train :	2019-2019 NR	Lexus UX250h			
Descriptive Information :	(1) Althoug all vehicles	h the involved in this range w	vehicles are within the a vere sold in the U.S. (2) C	bove production period Only vehicles in the above	range, no e

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Production Dates : VIN Range 1	produced with an improper shape discuss production records during the specific ma Toyota estimates approximately 25% of th booster pump which was manufactured w the noncompliance is present on each pote variation of each individual part. MAY 06, 2019 - MAY 31, 2019 Begin : NR End : NI	ed below could be affected. Note: Based on inufacturing process discussed below, he vehicle population may contain a brake vith inappropriate parts. However, whether entially affected vehicle depends on the
Vehicle 9 : Vehicle Type : Body Style : Power Train :	2019-2019 Lexus LS500h NR	
Descriptive Information :	(1) Although the involved vehicles are with all vehicles in this range were sold in the U production range which had a brake boost produced with an improper shape discuss production records during the specific ma Toyota estimates approximately 25% of th booster pump which was manufactured w the noncompliance is present on each pote variation of each individual part.	hin the above production period range, not J.S. (2) Only vehicles in the above ter pump containing a plastic brush holder and below could be affected. Note: Based on mufacturing process discussed below, he vehicle population may contain a brake <i>i</i> th inappropriate parts. However, whether entially affected vehicle depends on the
Production Dates :	MAY 17, 2019 - MAY 27, 2019	
VIN Range 1:	Begin: NR End: NF	R 🗌 Not sequential
Description of Noncomplia Description of t Noncompliand	ince : the The subject vehicles are equipped with the accumulator and a pump motor which the motor brushes. There is a possibili have been produced with an improper become stuck in the brush holder. If th unable to maintain an electrical connect the pump motor to stop operating. If th warning lights and messages will illum In this condition, depending on brake f brake pedal stroke amount, braking as several attempts to apply the brake per Control system will become deactivate affected. A sudden and complete loss of increase the vehicle stopping distance Further, deactivating the Vehicle Stabil subject vehicles to not meet the requir S5.1.2, which could increase the risk of	h a brake booster pump consisting of an contains a plastic brush holder to hold ity that the plastic brush holder may shape, causing one of the brushes to nis were to occur, the brush would be ction within the motor and may cause he pump motor stops operating, multiple ninate, and/or audible chimes will sound. fluid pressure in the accumulator and sist could be lost completely after dal. In addition, the Vehicle Stability ed, and other vehicle features could be of braking assist while driving could and may increase the risk of a crash. lity Control system may cause the rements of FMVSS No. 126, paragraph f a crash.
FMVSS	1: 126 - Electronic stability control system	ms

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FMVSS 2: NR

Description of the Safety Risk :	If the pump motor stops operating, multiple warning lights and messages will illuminate, and/or audible chimes will sound. In this condition, depending on brake fluid pressure in the accumulator and brake pedal stroke amount, braking assist could be lost completely after several attempts to apply the brake pedal. In addition, the Vehicle Stability Control system will become deactivated, and other vehicle features could be affected. A sudden and complete loss of braking assist while driving could increase the vehicle stopping distance and may increase the risk of a crash. Further, deactivating the Vehicle Stability Control system may cause the subject vehicles to not meet the requirements of FMVSS No. 126, paragraph S5.1.2, which could
Description of the Cause :	increase the risk of a crash.
Identification of Any Warning that can Occur :	NR
Supplier Identification :	

Component Manufacturer

Name : ADVICS CO., LTD.

Address : 4-29 Nitto-cho Handa-city Aichi FOREIGN STATES 475-0033

Country: Japan

Chronology :

In late May 2019, warning lights were found illuminated on certain vehicles during a final inspection process for braking and/or while driving from the final inspection line to the vehicle yard at certain Toyota manufacturing plants. Toyota inspected these vehicles and found Diagnostic Trouble Codes related to the brake booster pump. Toyota and the supplier investigated the recovered brake booster pumps. The brush holder within the pump motor was found to be out-of-specification. The supplier found that a component of the upper mold of the die at one of two molding facilities used to produce brush holders was replaced on April 11, 2019, creating this condition. If the brush holder is out-of-specification, the Vehicle Stability Control system may become deactivated. (In addition, the Regenerative Brake, Antilock Brake, Electronic Brake force Distribution, Traction Control, Brake Assist, Brake Hold, Pre-Crash Brake, Adaptive Cruise Control, Intuitive Parking Assist, Intelligent Clearance Sonar, Emergency Stop Signal and Active Cornering Assist system will also become deactivated for certain vehicles, and for some vehicle models, the Electrical Parking Brake system function will also be limited.) As a result, it was determined on July 18, 2019, that some vehicles may not meet the requirement of S5.1.2 of FMVSS 126.

Description of Remedy :

Description of Remedy Program :	All known owners of the subject vehicles will be notified by first class mail to return their vehicles to a Toyota or a Lexus dealer. For all involved vehicles, based on the vehicle identification number or an inspection, the dealer will replace the brake booster pump, if necessary, with a new one at no cost. As the owner notification letters will be mailed out well within the active period of the Toyota/Lexus New Vehicle Limited Warranty, all involved vehicle owners for this recall would have been provided a repair at no cost under Toyota's or Lexus's Warranty.
How Remedy Component Differs from Recalled Component :	Recalled Component Name: Pump Assy, Brake Booster w/ Accumulator, Recalled Component Description: Brake Booster Pump, Recalled Component Part Numbers: 47070-47070, 47070-42030, 47070-33050, 47070-50050, 47070-11010, 47070-12030
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	Notifications to owners of the affected vehicles will occur by September
	22, 2019. A copy of the draft owner notification letter(s) will be
	submitted as soon as available. Notifications to distributors/dealers will
	be sent on July 24, 2019. Copies of dealer communications will be
	submitted as they are issued.
Planned Dealer Notification Date :	JUL 24, 2019 - JUL 24, 2019
Planned Owner Notification Date :	SEP 09, 2019 ⁻ SEP 22, 2019

* NR - Not Reported